TEAC

SERVICE MANUAL

RW-D250

COMPACT disc DIGITAL AUDIO Recordable ReWritable

CD Recorder

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NOTES

- PC boards shown are viewed from parts side.
- Parts marked with * require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [J]:JAPAN [US]:U.S.A.

注　意

- プリント基板図は部品面を示しています。
- *印の部品は納期が若干かかります。
  あらかじめご了承ください。
- 分解図に部番のない部品および品番のない部品は供給できません。
- 標準の抵抗、コンデンサーは省略してあります。
  回路図を参照してください。
- ⚠印は安全重要部品です。
  交換する時は必ず指定の部品を使用してください。
- 仕向先
  [J]:JAPAN [US]:U.S.A.

Effective : November, 2000

S-0031A

1 SPECIFICATIONS
仕　様

Media type .....CD-RW and CD-R for Digital audio (record and playback), CD (playback only)
Frequency converter input sampling frequency .....32kHz~48kHz
Recording sampling frequency 44.1kHz
Frequency response.....20Hz~20kHz
(playback: ±1.5dB, recording: ±1.5dB)
Signal to noise ratio .....More than 92dB (playback)
More than 86dB (recording)
Dynamic range .....More than 92dB (playback)
More than 86dB (recording)
Total Harmonic Distortion .....Less than 0.01% (playback)
Less than 0.02% (recording)
Wow & flutter .....Unmeasurable
Audio Input Sensitivity/Impedance .....LINE : -6dBV (0.5V)/20kΩ
Maximum Input level .....LINE : +6dBV (2.0V)
Output Level/Impedance.....LINE : -6dBV (0.5V)/1kΩ
Maximum output level .....LINE : +6dBV (2.0V)

Power supply .....120/230 V AC, 50/60Hz
Power consumption .....20 W
Dimensions (W x H x D) .....435 x 102 x 320 mm
(17-1/8" x 4" x 12-4/8")
Weight (Net).....5.1kg (11.2 lb)

Standard Accessories.....Audio signal connection cord x 1
Remote control unit x 1
(Battery is not included)

● Improvements may result in specification or feature changes without notice.

記録メディア .....音楽用CD-R/CD-RW
入力サンプリング周波数.....32kHz～48kHz
録音サンプリング周波数 44.1kHz
周波数特性 .....20Hz～20kHz
(再生時：±1.5dB、記録時：±1.5dB)
S/N比 .....92dB以上(再生時)
86dB以上(記録時)
ダイナミックレンジ .....92dB以上(再生時)
86dB以上(記録時)
歪率 .....0.01%以下(再生時)
0.02%以下(記録時)
ワウ・フラッター .....測定限界以下
入力端子.....アナログ：ライン×1系統
デジタル：光/同軸　各1系統
出力端子.....アナログ：ライン×1系統、ヘッドホン×1
デジタル：光/同軸　各1系統
ライン入力 .....入力インピーダンス：20kΩ
規定入力レベル：−6dBV(0.5V)
ライン出力.....出力インピーダンス：1kΩ
規定出力レベル：−6dBV(0.5V)
最大出力レベル：＋6dBV(2.0V)

電源 .....AC100V、50-60Hz
消費電力..... 20W
外形寸法(幅×高さ×奥行き).....435×102×320mm
質　量..... 5.1kg
動作保証温度 .....5℃～35℃
付属品 .....リモコン(RC-781)
リモコン用乾電池(単3)×2本
オーディオケーブル×1本
光デジタルケーブル×1本
取扱説明書
保証書

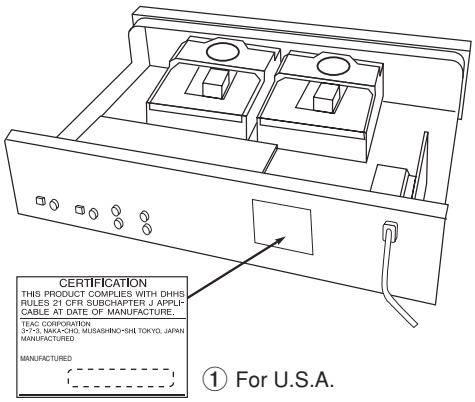
● 仕様および外観は、改善のため予告なく変更することがあります。

SAFETY INFORMATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.
The label required in this regulation is shown ①.

● CAUTION
USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

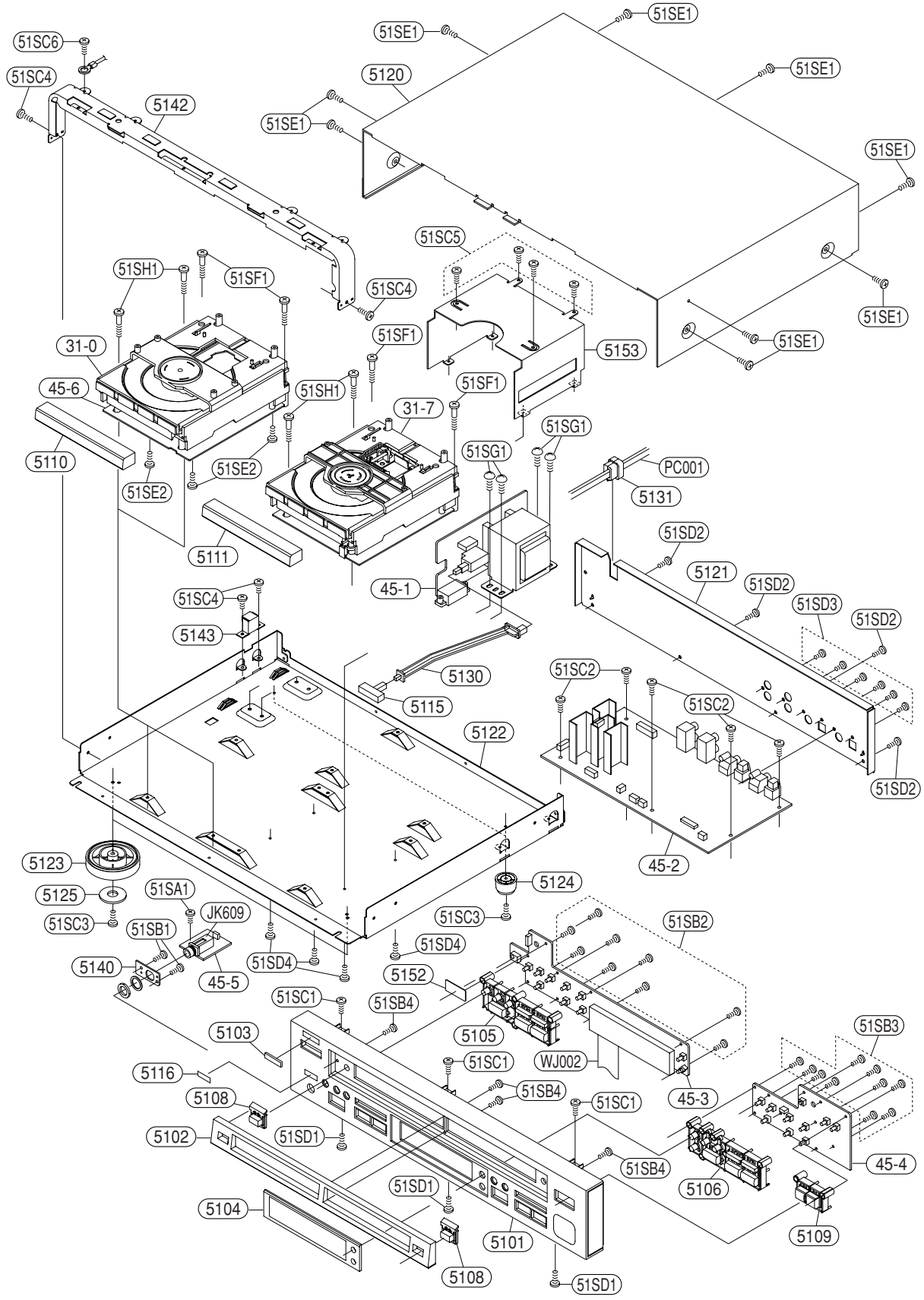
Optical pickup:	Material	: Ga-Al-As
	Wavelength	: 765 - 815nm (25℃) (Play) 780 - 790nm (25℃) (Record)
	Laser output	: Continuous wave max. 5mW (Play) Continuous wave max. 75mW (Record)


CERTIFICATION
THIS PRODUCT COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.
TEAC CORPORATION
3-7-3, NAKA-CHO, MUSASHINO-SHI, TOKYO, JAPAN
MANUFACTURED
MANUFACTURED
① For U.S.A.

2 EXPLODED VIEWS AND PARTS LIST

分解図とパーツリスト

EXPLODED VIEW-1

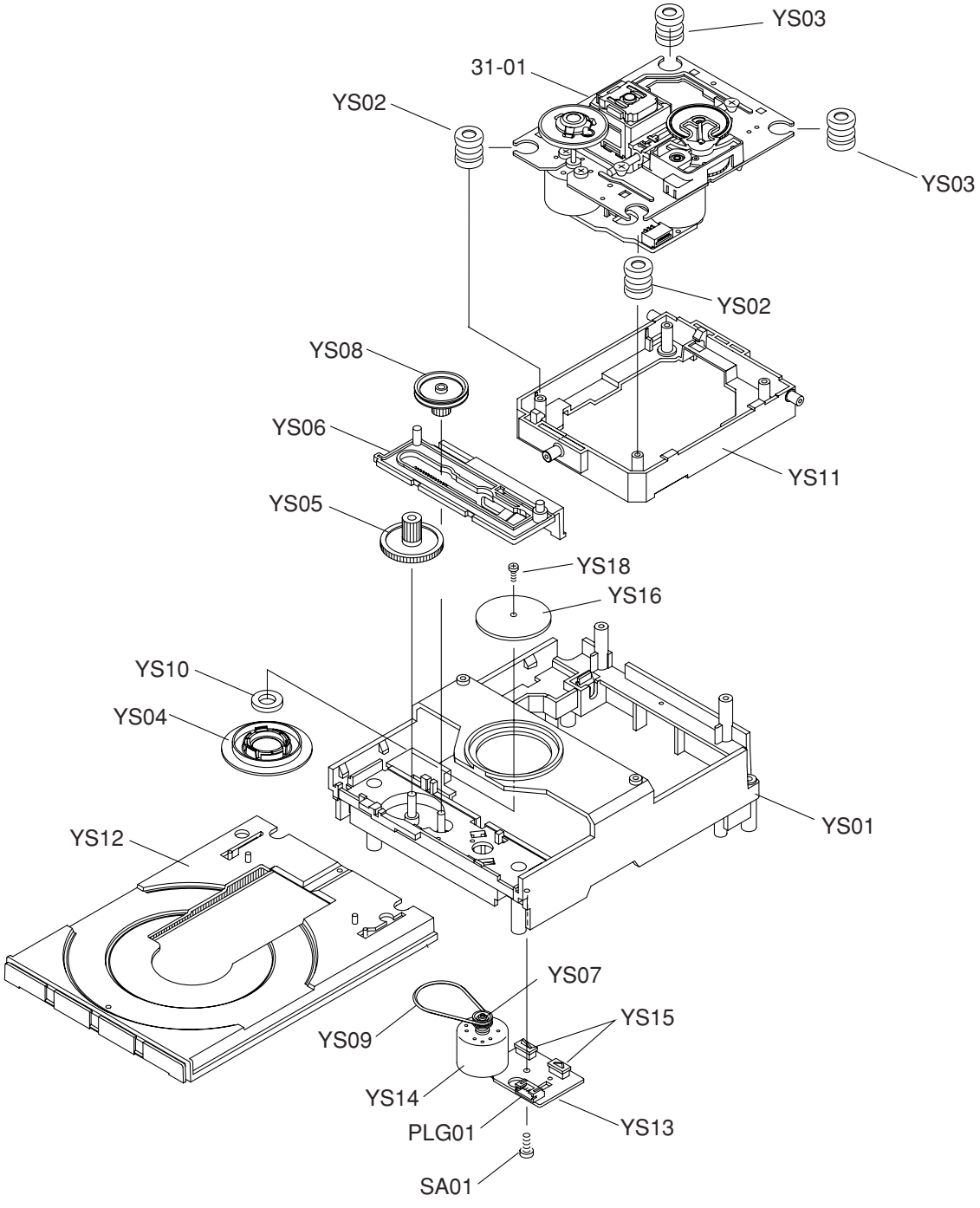


EXPLODED VIEW-1

REF.NO.		PARTS NO.	DESCRIPTION
31-0		9A08626600	MECHA,CD11FT
31-7		9A08643000	CRD-RA1W02
45-1		*9A08625700	ASSY PCB POWER,120/230 [US]
		*9A08625710	ASSY PCB POWER,100V [J]
45-2		*9A08625800	ASSY PCB IN OUT
45-3		*9A08625900	ASSY PCB DISPLAY
45-4		*9A08626000	ASSY PCB KEY
45-5		*9A08626100	ASSY PCB H.P.
45-6		*9A08626200	ASSY PCB SERVO
5101		*9A08667400	ESCUTCHEON [US]
		*9A08687600	ESCUTCHEON [J]
5102		*9A08627200	PANEL,TRAY [US]
		*9A08687700	PANEL,TRAY [J]
5103		*9A08667500	BADGE [US]
		*9A08687800	BADGE [J]
5104		*9A08627300	WINDOW
5105		9A08627400	BUTTON,PLAY,LEFT [US]
		9A08687900	BUTTON,PLAY,LEFT [J]
5106		9A08626500	ASSY,BUTTON,PLAY,RIGHT [US]
		9A08688000	ASSY,BUTTON,PLAY,RIGHT [J]
5108		9A08627500	BUTTON,OPEN [US]
		9A08688100	BUTTON,OPEN [J]
5109		9A08627600	BUTTON,LEVEL [US]
		9A08688200	BUTTON,LEVEL [J]
5110		*9A08626900	DECORATION,TRAY [US]
		9A08688300	DECORATION,TRAY [J]
5111		*9A08627000	DECORATION,TRAY [US]
		9A08688400	DECORATION,TRAY [J]
5115		9A07348500	KNOB,PUSH [US]
		9A08696200	KNOB,PUSH [J]
5116		*9A08628500	FILTER,IR
5120		9A08626700	COVER,TOP [US]
		9A08696300	COVER,TOP [J]
5121		9A08667600	PANEL,REAR [US]
		9A08696400	PANEL,REAR [J]
5122		9A08627700	CHASSIS
5123		9A06844600	LEG
5124		9A07078300	LEG
5125		9A06846800	FELT,LEG
5130		*9A08628200	JOINT
5131	⚠	*9A06846200	BUSHING,NIFCO 2271
5140		*9A08627800	BRACKET-E,JACK,L
5142		*9A08627900	BRACKET-M,TOP
5143		*9A08628000	BRACKET-M,STOPPER
5152		*9A07079800	SHEET,IR
5153		*9A08628100	BRACKET-M,MECHA
JK609		9A08630100	JACK,H.P.
PC001	⚠	*9A07506100	POWER CORD,UL 1800L [US]
	⚠	*9A07275100	POWER CORD,T-MARK [J]
WJ002		*9A08632600	WIRE,JUMPER,29P

REF.NO.	PARTS NO.	DESCRIPTION
51SA1	*9A06855600	SCREW,S-TPG BIN 2.6X6
51SB1	*9A07073500	SCREW,S-TPG BIN 2.6X8
51SB2	*9A07073500	SCREW,S-TPG BIN 2.6X8
51SB3	*9A07073500	SCREW,S-TPG BIN 2.6X8
51SB4	*9A07073500	SCREW,S-TPG BIN 2.6X8
51SC1	*9A01589800	SCREW,S-TPG BIN M3X6
51SC2	*9A01589800	SCREW,S-TPG BIN M3X6
51SC3	*9A01589800	SCREW,S-TPG BIN M3X6
51SC4	*9A01589800	SCREW,S-TPG BIN M3X6
51SC5	*9A01589800	SCREW,S-TPG BIN M3X6
51SC6	*9A01589800	SCREW,S-TPG BIN M3X6
51SD1	*9A01583400	SCREW,S-TPG BIN M3X6
51SD2	*9A01583400	SCREW,S-TPG BIN M3X6
51SD3	*9A01583400	SCREW,S-TPG BIN M3X6
51SD4	*9A01583400	SCREW,S-TPG BIN M3X6
51SE1	*9A08640200	SCREW,S-TPG BIN 3X10
51SE2	*9A08640200	SCREW,S-TPG BIN 3X10
51SF1	*9A08640300	SCREW,S-TPG BIN 3X35
51SG1	*9A06856000	SCREW,S-TPG TR S4X6
51SH1	*9A07086500	SCREW,S-TPG BIN 3X25

EXPLODED VIEW-2



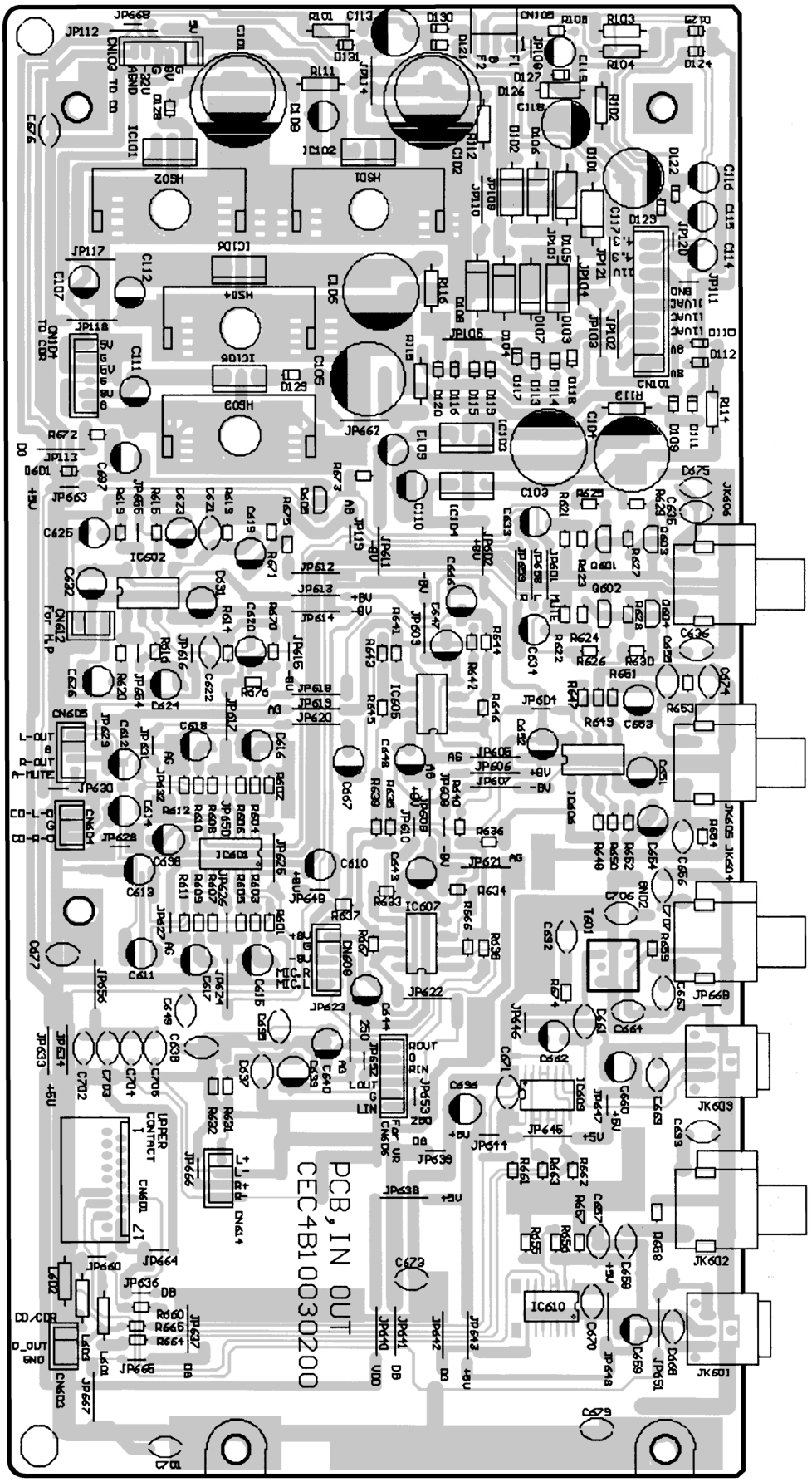
EXPLODED VIEW-2 (31-0)

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
31-01	9A08643100	DA11T3C	
PLG01	*9A02682700	PLUG,5P	
SA01	*9A07071100	SCREW,S-TPG BIN 3X8	
YS01	*9A08641500	CHASSIS,FRAME	
YS02	9A08438700	CUSHION,RUBBER	
YS03	9A08438800	CUSHION,RUBBER	
YS04	9A06846400	HOLDER,DISC	
YS05	9A08641600	GEAR,DRIVE	
YS06	9A08641700	GEAR,SLIDE	
YS07	9A08641800	PULLEY,MOTOR	
YS08	9A08641900	PULLEY,GEAR	
YS09	9A08642000	BELT,SQUARE	
YS10	9A06847000	MAGNET	
YS11	*9A08642100	LIFTER,MECHA	
YS12	*9A08642200	TABLE,LOADING	
YS13	*9A08642300	PWB,MOTOR	
YS14	9A08642800	MOTOR,6V,SPINDLE	
YS15	9A08642900	SWITCH,PUSH 2-1	
YS16	9A02677700	YOKE,MAGNET	
YS18	*9A03303500	SCREW,S-TPG PIN M2X4	

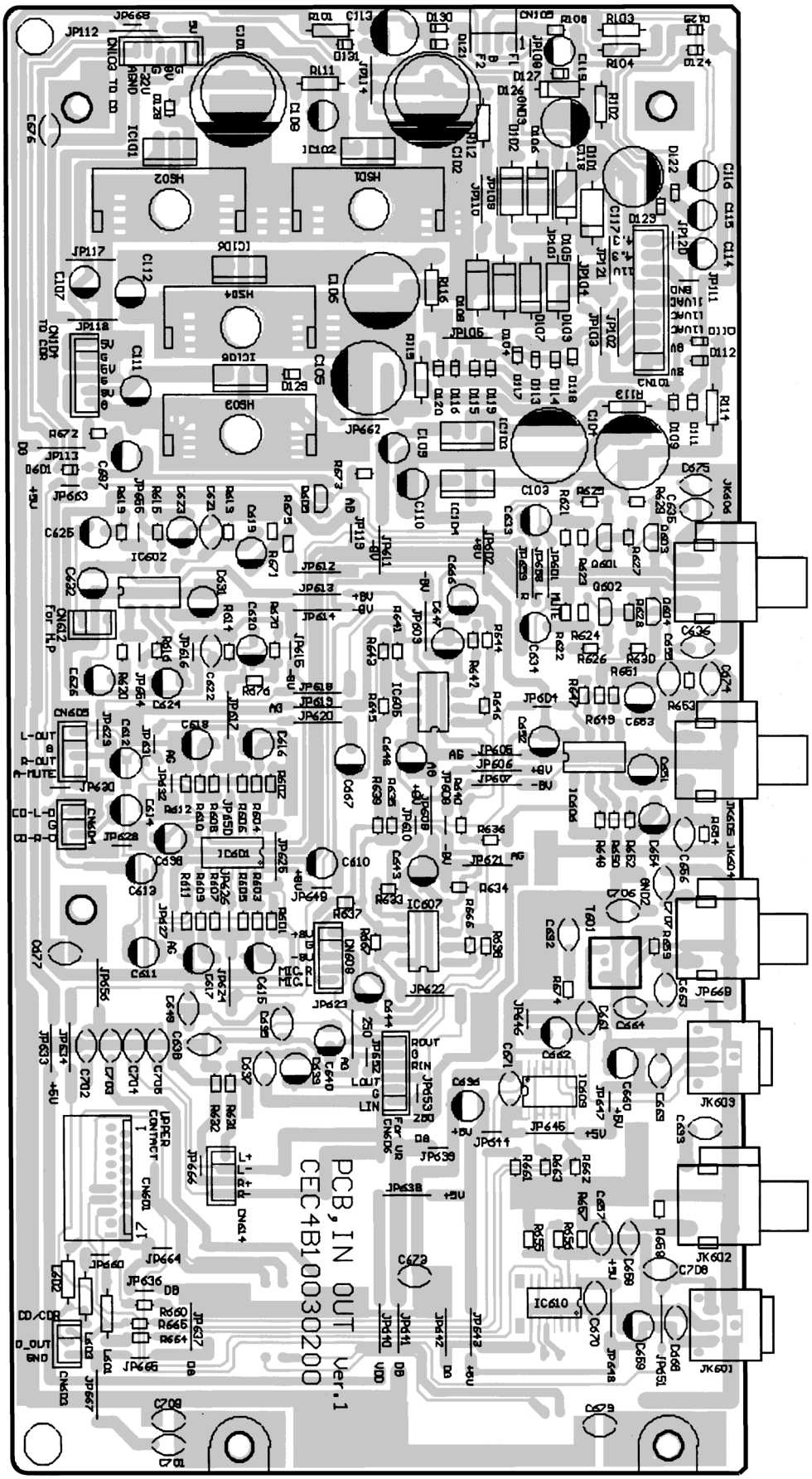
3 PC BOARDS AND PARTS LIST

基板図とパーツリスト

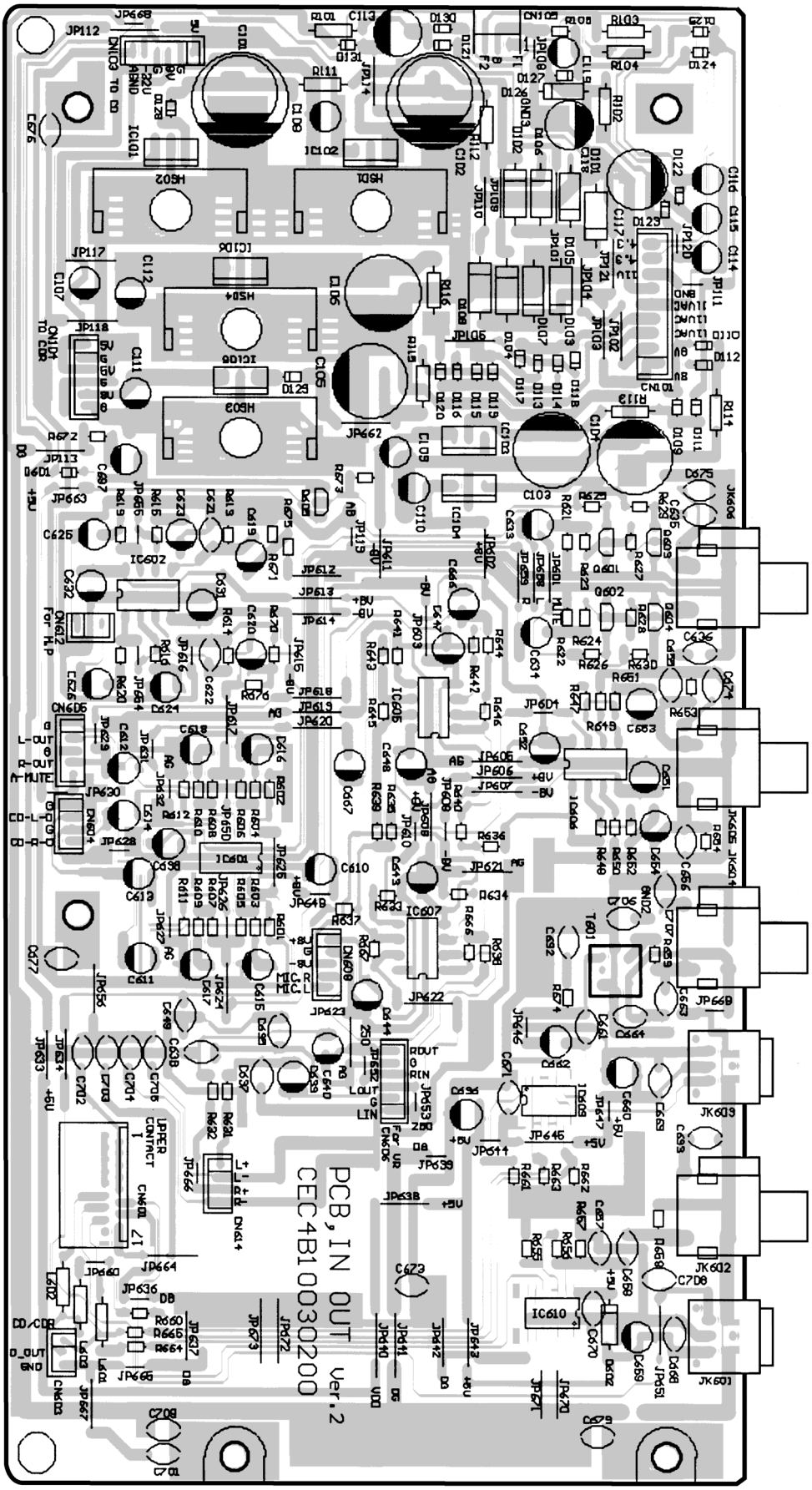
IN OUT PCB Ver.0



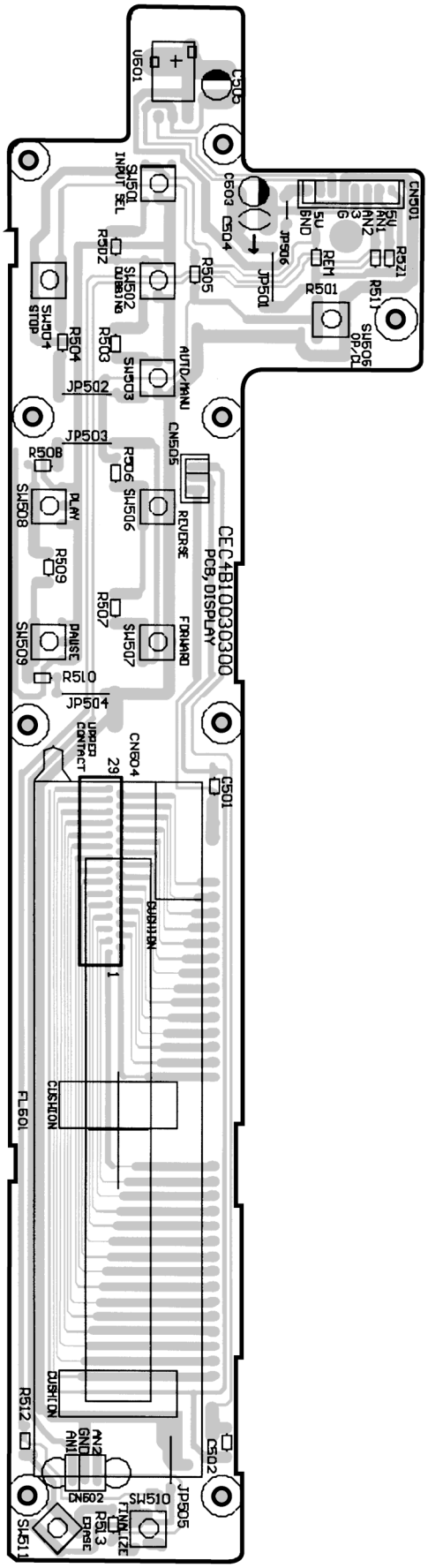
IN OUT PCB Ver.1



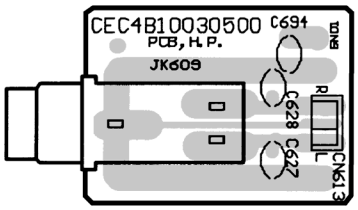
IN OUT PCB Ver.2



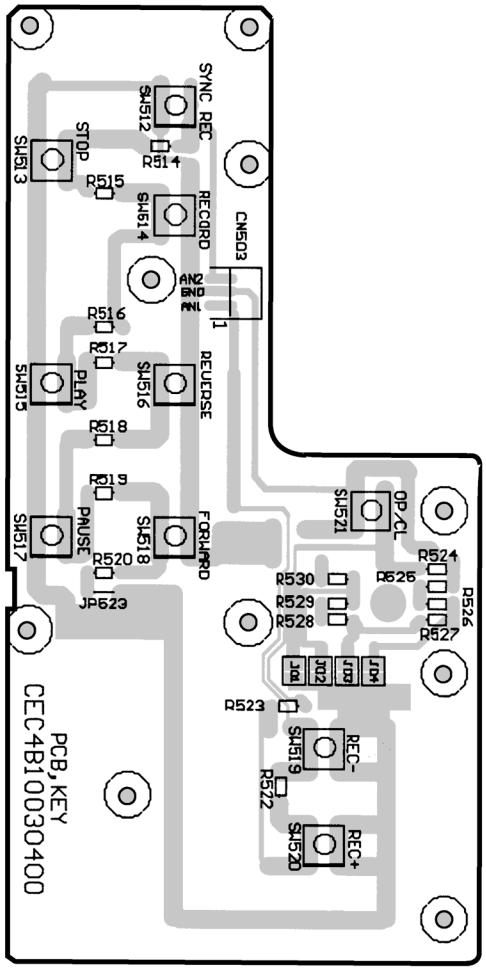
DISPLAY PCB

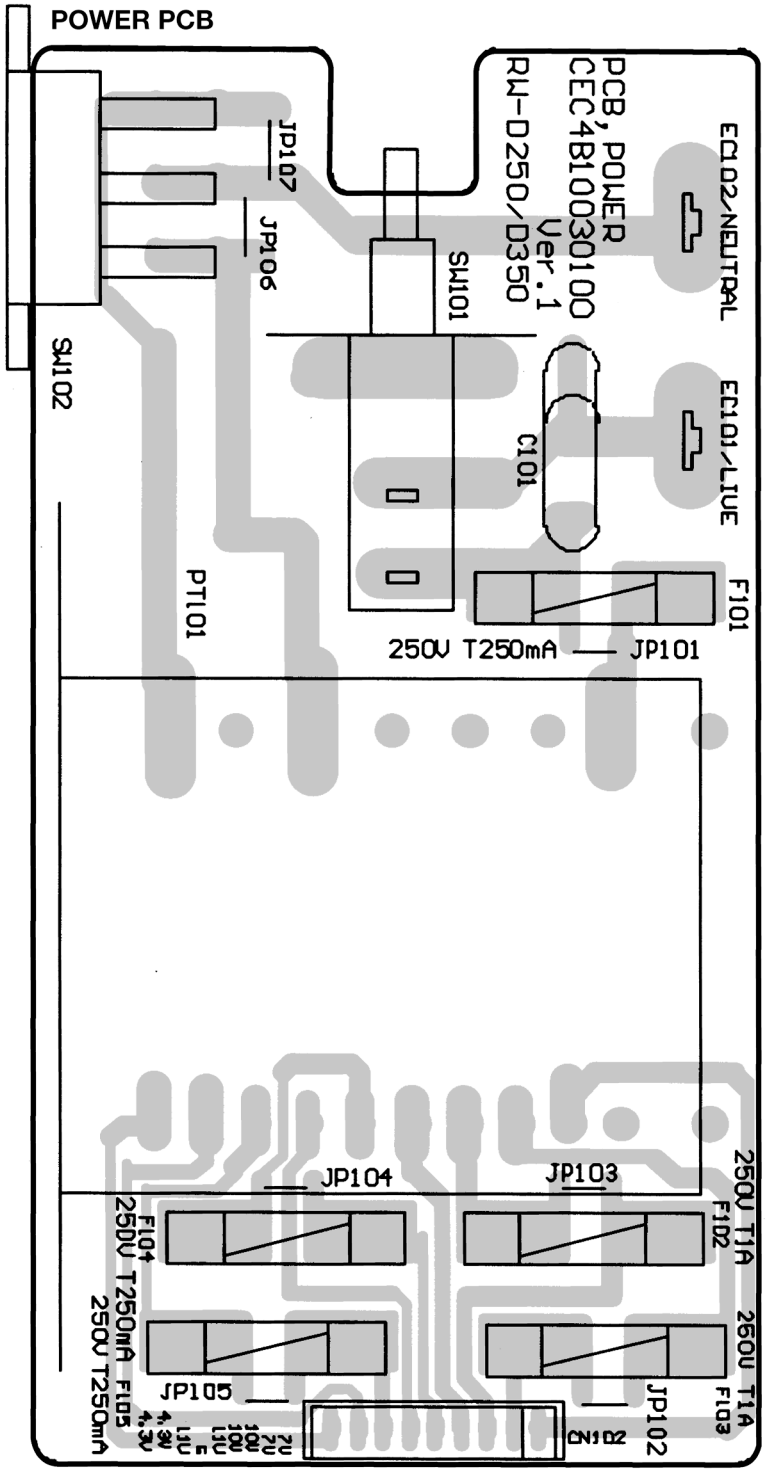


HP PCB



KEY PCB




POWER PCB
PCB,POWER
CEC4B10030100
Ver.1
RW-D250/D350
EC102/NEUTRAL
EC101/LIVE
JP107
JP106
SW101
SW102
C101
F101
250V T250mA
JP101
PT101
JP104
JP103
F102
250V T1A
F104
250V T250mA
F105
250V T250mA
JP105
JP102
F103
250V T1A
CN102
7V
10Ω
1W
5
4.3V

SERVO PCB ASSY

REF.NO.		PARTS NO.	DESCRIPTION
		*9A08626200	ASSY PCB SERVO
		*9A08629300	PCB,SERVO
CN101		9A08630000	PLUG,29P 52793-2990
CN102		9A08629700	PLUG,8P S8B-PH-SM3-TB
CN103		9A08629800	PLUG,9P 52793-0990
CN104		9A08642700	CONNECTOR-P,4P
CN105		9A08642600	CONNECTOR-P,3P
CN106,107		9A08642500	CONNECTOR-P,6P
CN108		9A08629900	PLUG,16P 52793-1690
CN109		9A08642500	CONNECTOR-P,6P
CN110		9A08642400	CONNECTOR-P,5P
F101,102		9A08636300	FUSE,125V 2A
Q101		9A08640800	TR,2SA1576A-R-T106
Q102		9A08640900	TR,2SB1119S-TD
Q103		9A08640600	TR,DTC124EUA-T106
Q104,105		9A08640700	TR,DTC144EUA-T106
Q106		9A08640500	TR,DTA124EKA-T146
Q107,108		9A08641400	TR,2SC4555-7
Q109		9A08641300	TR,2SC4081-BR-T106
U101		9A08636600	IC,LC78641NE
U102		9A08636500	IC,LA9235M-TE-L
U103		9A08637100	IC,LC87F66C8AU-QIP
U104		9A08636800	IC,PST597ENR
U105		9A08636400	IC,BA5960FS
X101		9A08632300	RESONATOR,SMD-49
X102		9A08632200	RESONATOR,CSTCC 10.0MG-TC

IN OUT PCB ASSY

REF.NO.		PARTS NO.	DESCRIPTION
		*9A08625800	ASSY PCB IN OUT
		*9A08628900	PCB,IN OUT
C101,102	⚠	9A08634600	C,ELECT 4700UF/25V M
C103-106	⚠	9A08466500	C,ELECT 2200UF/25V M
C113	⚠	9A02684500	C,ELECT 470UF/16V M
C117	⚠	9A07358100	C,ELECT 22UF/50V M
CN101		9A01595500	PLUG,9P
CN103,104		9A00188000	PLUG,6P PH V
CN105		9A07360300	PLUG,3P
CN601		9A08629500	PLUG,17P RH P=1
CN603,604		9A00436900	PLUG,3P
CN605		9A06976700	PLUG,4P PH V
CN612		9A00436900	PLUG,3P
COR01		9A08632800	CORE,FERRITE,E04FA2702180
D101-108	⚠	9A08635900	DIODE,RL202
D109-125	⚠	9A06853300	DIODE,1A3-I
D126		9A08636000	ZENER DIODE,33V 1W
D127		9A08636200	ZENER DIODE,MTZJ6.2
D130	⚠	9A06853300	DIODE,1A3-I
D131		9A02276200	ZENER DIODE,MTZJ5.6B

IN OUT PCB ASSY

REF.NO.		PARTS NO.	DESCRIPTION
D601		9A06853400	DIODE,1SS133-T-77
D603,604		9A06857000	TR,2SD1936-T-AC
D605		9A08640400	TR,DTA124-ES-TP
HS101-104		9A00183200	PLATE HEAT SINK
IC101,102	⚠	9A06854500	IC,NJM7805FA
IC103	⚠	9A08636700	IC,NJM79M08FA
IC104-106	⚠	9A06854600	IC,NJM7808FA
IC601		9A08625600	IC,NJM2123M
IC602		9A06854400	IC,NJM4558D
IC605-607		9A06854400	IC,NJM4558D
IC609		9A08637000	IC,TC74HC00AF
IC610		9A08636900	IC,TC74HCU04AF
JK601		9A08632100	CONVERTOR,GP1FA550RZ
JK602		9A08630300	JACK,RCA 1P Y
JK603		9A08632000	CONVERTER,GP1FA550TZ
JK604		9A08630300	JACK,RCA 1P Y
JK605,606		9A08630200	JACK,RCA 2P W/R
Q601,602		9A06857000	TR,2SD1936-T-AC
R102	⚠	9A07359000	R,CARBON 1/4W 680 JA
T601		9A02276900	TRANS,PULSE

DISPLAY PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A08625900	ASSY PCB DISPLAY
	*9A08629000	PCB,DISPLAY
CN504	9A08629600	PLUG,29P RH P=1
FL501	9A08631800	FLT,HNA-14MM14
SW501-504	9A06849200	SWITCH,TACT
SW505	9A07083200	SWITCH,TACT
SW506-511	9A06849200	SWITCH,TACT
U501	9A08629400	IC,GP1U271X

H.P. PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A08626100	ASSY PCB H.P.
	*9A08629200	PCB,H.P.
JK609	9A08630100	JACK,H.P.

KEY PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A08626000	ASSY PCB KEY
	*9A08629100	PCB,KEY
CN503	9A07360300	PLUG,3P
SW512-520	9A06849200	SWITCH,TACT
SW521	9A07083200	SWITCH,TACT

POWER PCB ASSY

REF.NO.		PARTS NO.	DESCRIPTION
		*9A08625700	ASSY PCB POWER,120/230 [US]
		*9A08625710	ASSY PCB POWER,100V [J]
		*9A08628800	PCB,POWER
C101	⚠	9A07080700	CAPACITOR
EC101,102		5760663000	EC TERMINAL,1P
PC001	⚠	9A07506100	POWER CORD,UL 1800L [US]
PC001	⚠	9A07275100	POWER CORD,T-MARK [J]
PT101	⚠	9A08631600	POWER TRANS,120/230 [US]
PT101	⚠	9A08687500	POWER TRANS,100V [J]
SW101	⚠	9A07083100	SWITCH,PUSH,POWER
SW102	⚠	9A08631700	SWITCH,SLIDE [US]

4 INCLUDED ACCESSORIES
付属品

INCLUDED ACCESSORIES

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*9A08311400	OWNER'S MANUAL,E/F [US]	
	*9A08622500	OWNER'S MANUAL,J [J]	
	*9A08631900	REMOCON	
	*9A07089700	BATTERY [J]	
	*9A06849900	PLUG,CORD,RCA	